

Dr. Wolfgang G. Knauss
California Institute of Technology



EDUCATION

California Institute of Technology,
Ph.D., Aeronautics, 1963
M.S., Aeronautics (Structural Mechanics), 1959
B.S., Mechanical Engineering (*with honors*), 1958

WORK EXPERIENCE

California Institute of Technology
Professor of Aeronautics and Applied Mechanics, 1982 - Present
Professor of Aeronautics, 1977 - 1982
Associate Professor, 1969 - 1977
Assistant Professor, 1965 - 1969
Research Fellow, 1963 - 1965
Research Engineer, 1963
Graduate Teaching Assistant, 1958 - 1961
University of Kassel, Germany
Visiting Professor, 1986
University of Karlsruhe (TH)
Visiting Professor, 1972 - 1973, 1987

AREAS OF EXPERTISE

Time dependent fracture of elastomers, brittle dynamic fracture and failure of structural composites, predicting fracture in polymeric structures, failure behavior and analysis of micron-sized structures, time-dependent, yield-like behavior of typical structural polymers, dynamic fracture mechanics in brittle solids, nano-mechanics methods applied to strain field measurement involving failure and cracks.

PROFESSIONAL/SCIENTIFIC/HONORARY AFFILIATIONS

ISI Highly Cited Researcher, 2004, Honorary Member (2003), Lazan Award (2000), Murray Medal (1995), Society of Experimental Mechanics; Warner T. Koiter Medal, ASME (2001); Von Karman Chaired Professorship (2001); Kapitsa Medal, Russian Academy of Natural Sciences (1996); Member: US National Academy of Engineering, Russian Academy of Natural Sciences, International (Russian) Academy of Engineering, The Adhesion Society, Society of Rheology, Society of Automotive Engineers, Sigma Xi, Society for the Advancement of Science, AIAA, Materials Research Society; Fellow, ASME, Society for Experimental Mechanics, American Academy of Mechanics, Institute for the Advancement of Engineering.